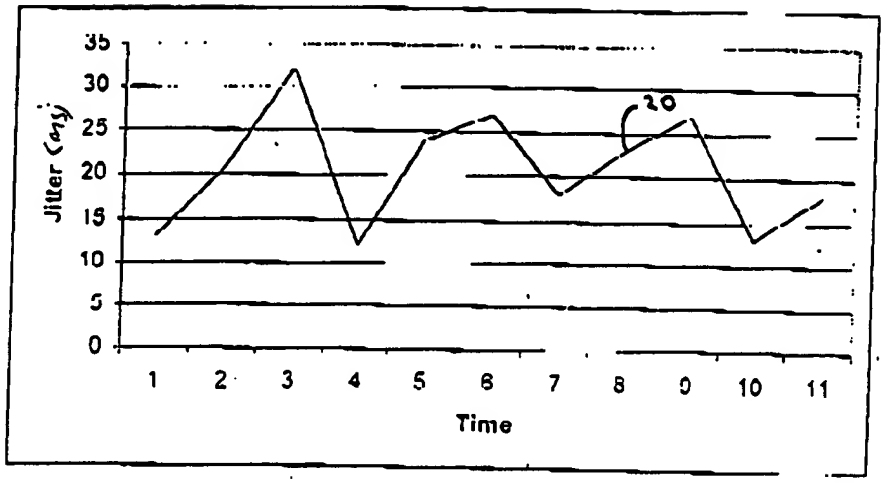

Fig. 1

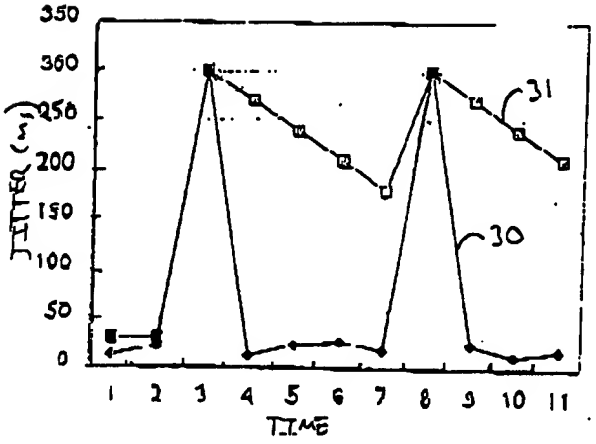

FIG. 3

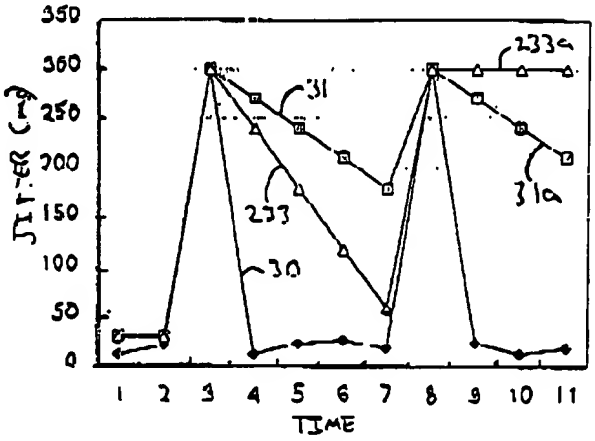

FIG. 8

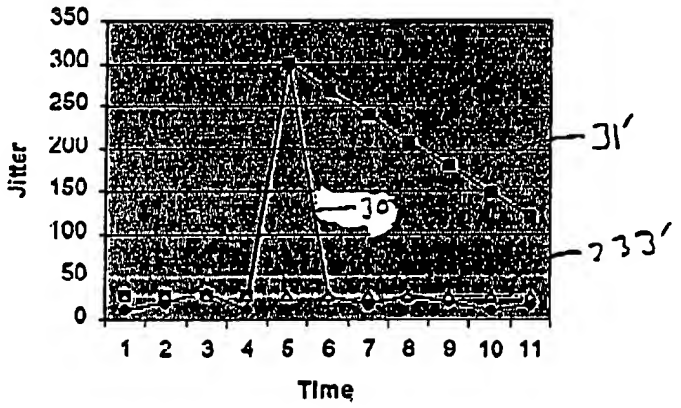

FIG. 9

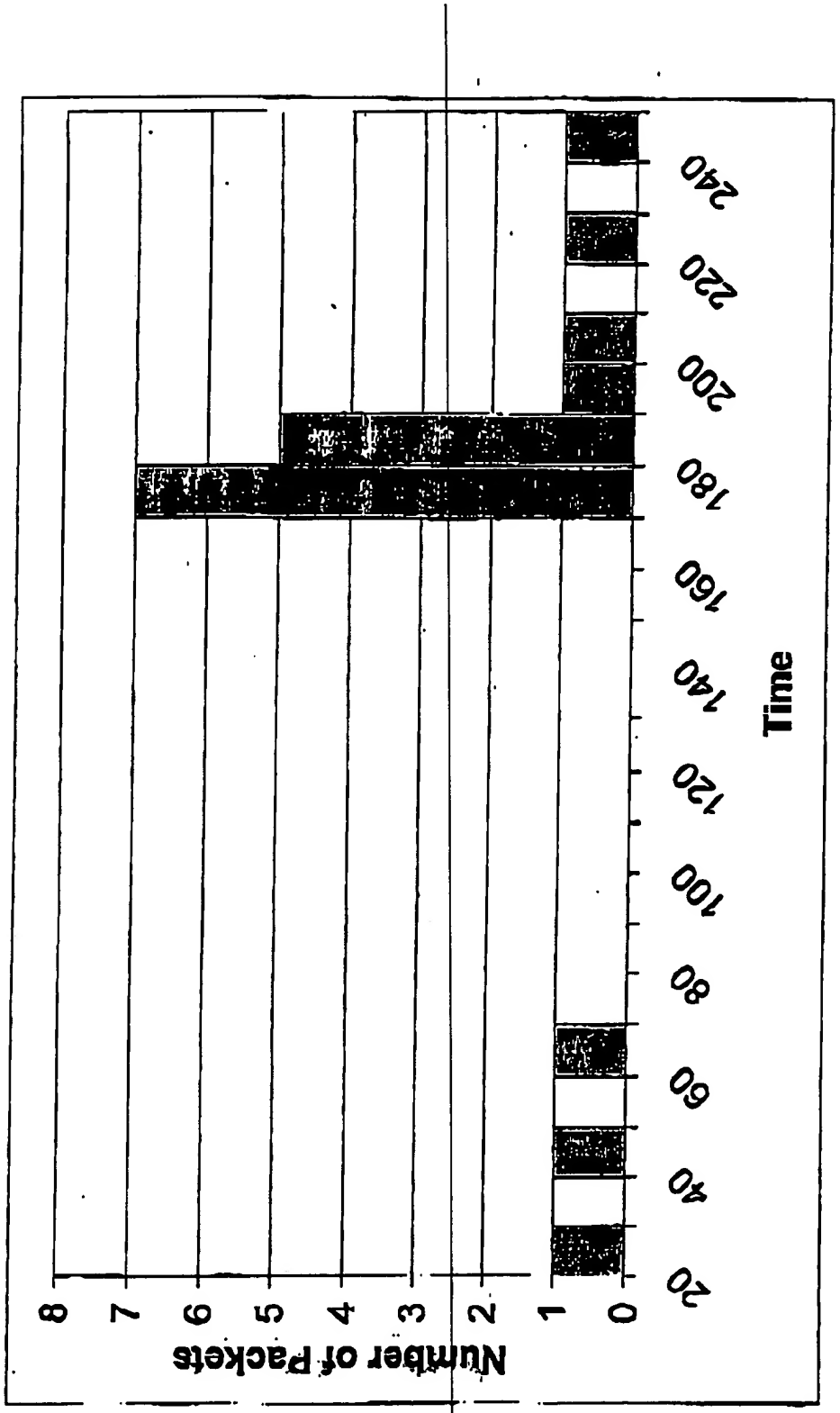
Number of Packets
0
1
2
3
4
5
6
7
8
Time
20
40
60
80
100
120
140
160
180
200
220
240

Fig. 2

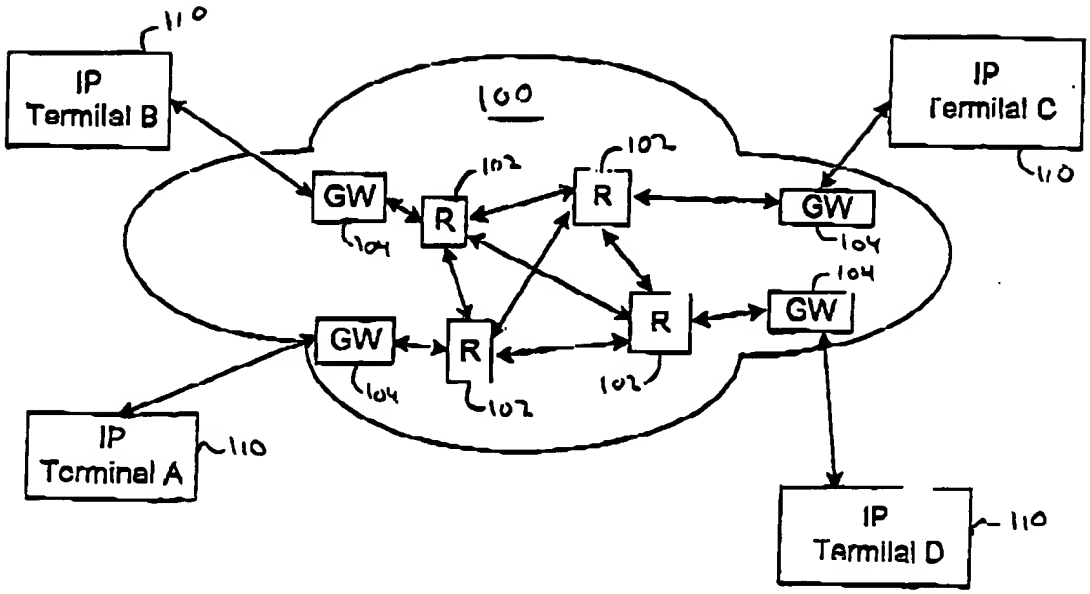
110
IP
Terminal B
100
IP
Terminal C
110
GW
104
R
102
R
102
GW
104
R
GW
104
GW
104
R
102
R
102
IP
Terminal A
110
IP
Terminal D
110

Fig. 4a

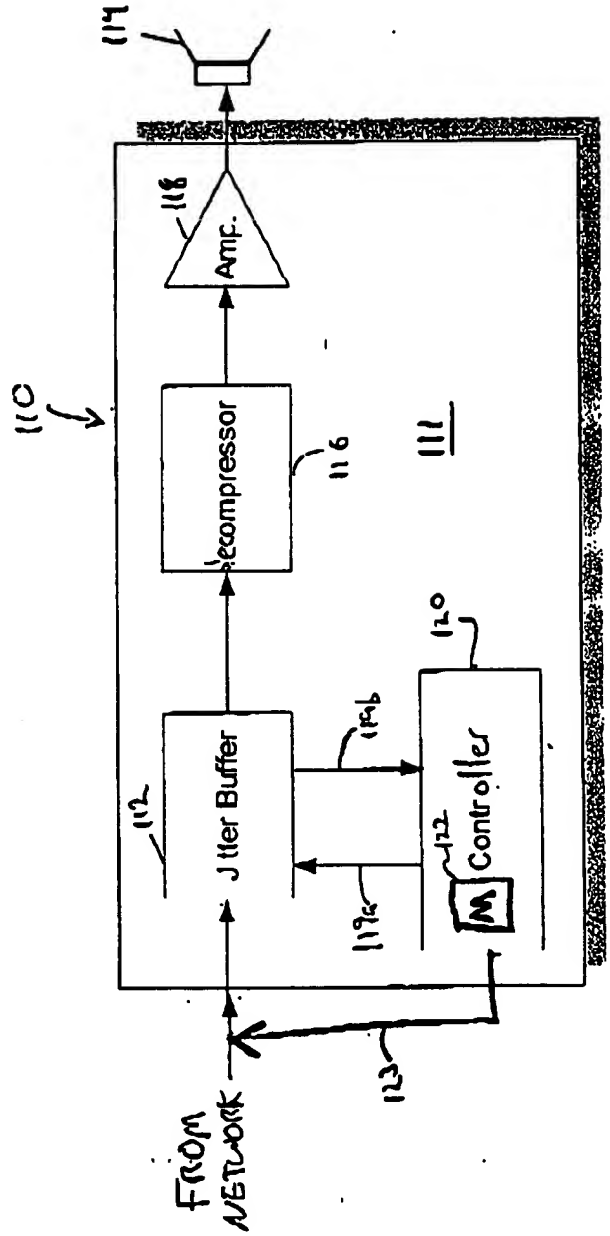
114
116
Amp.
110
Decompressor
116
111
120
Jitter Buffer
112
118b
Controller
122
118a
123
FROM NETWORK

Fig. 4b

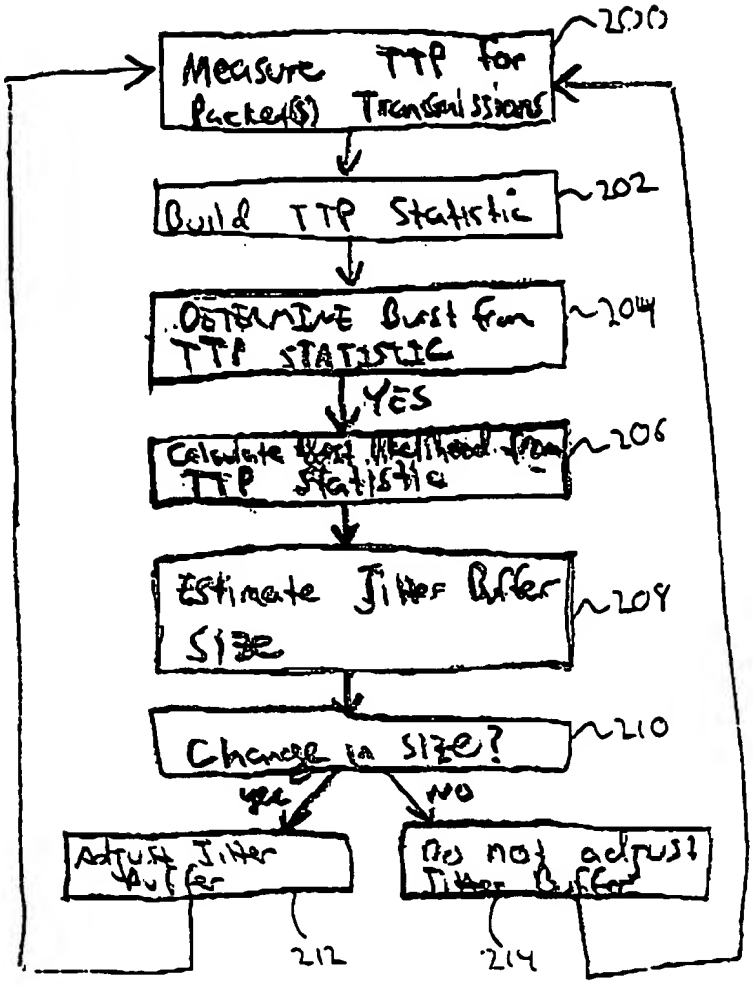
200
Measure TTP for Packet(s) Transmissions
202
Build TTP Statistic
204
Determine Burst from TTP STATISTIC
YES
206
Calculate Worst likelihood from TTP Statistic
208
Estimate Jitter Buffer Size
210
Change in Size?
YES
NO
Adjust Jitter Buffer
Do not adjust Jitter Buffer
212
214

Fig. 5

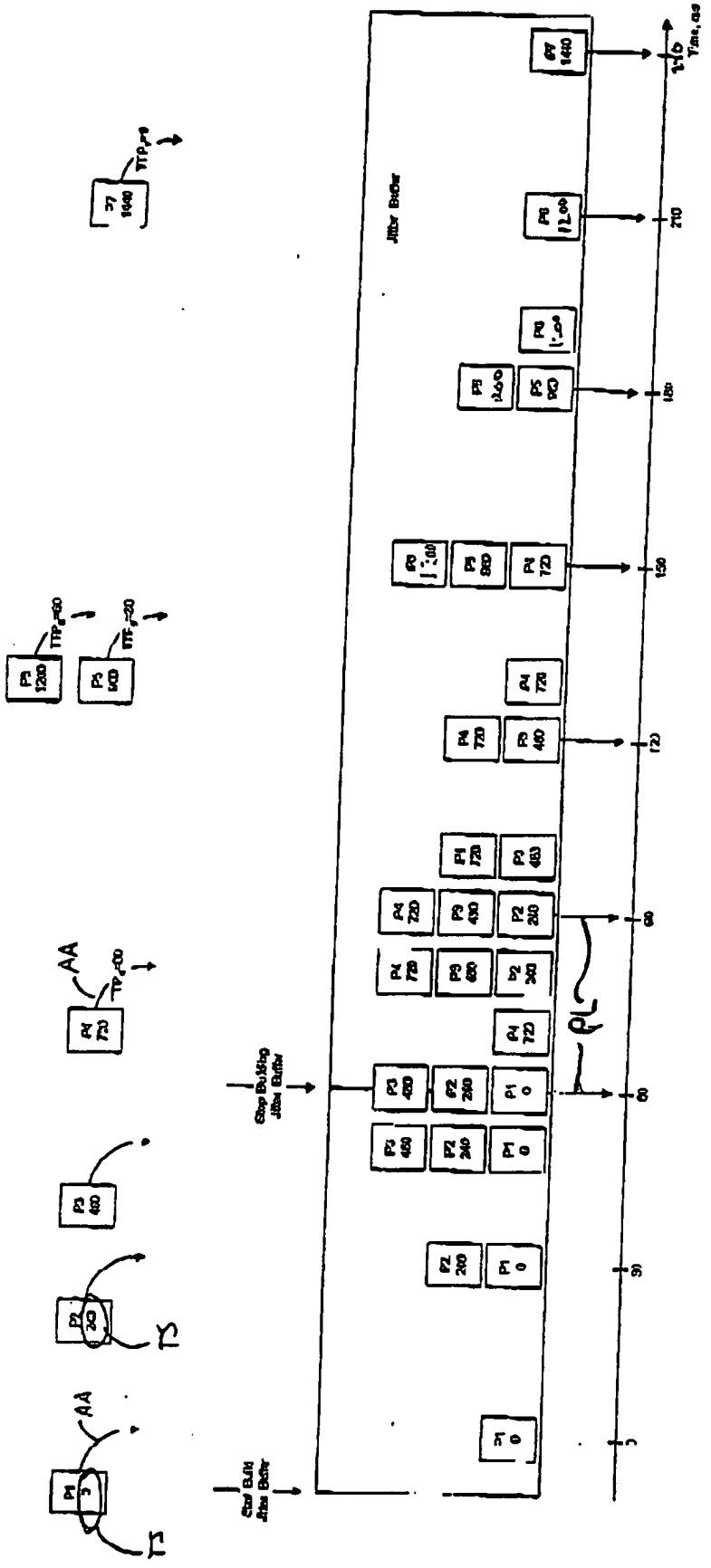

Fig. 6

			TTF																							
Hystogram #		Hystogram Time (ms)	-150	-120	-90	-60	-30	0	30	60	90	120	150	180	210	240	270	300	330	360	390	420	Width	Offset
Graph	1	Time Interval	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	60	30
	2	874	0	0	0	0	0	1	13	0	11	0	0	0	0	0	0	0	0	0	0	0	90	0
	3	1627	0	0	0	0	0	6	20	7	17	0	0	0	0	0	0	0	0	0	0	0	90	0
	4	3247	0	0	0	0	0	14	14	14	12	0	0	0	0	0	0	0	0	0	0	0	90	0
	5	3251	0	0	0	0	0	14	14	14	12	0	0	0	0	0	0	0	0	0	0	0	90	0
	6	3250	0	0	0	0	0	13	16	13	13	0	0	0	0	0	0	0	0	0	0	0	90	0
	7	3248	0	0	0	0	0	12	16	12	14	0	0	0	0	0	0	0	0	0	0	0	90	0
	8	3251	0	0	0	0	0	15	15	16	12	1	0	0	0	0	0	0	0	0	0	0	120	0
	9	3672	0	0	0	0	0	13	13	16	12	0	0	0	0	0	0	0	0	0	0	0	90	0
	10	3250	0	0	0	0	1	5	15	9	17	1	5	2	0	0	0	0	0	0	0	0	210	-30
	11	3250	0	0	0	0	0	0	0	0	7	11	15	17	8	3	0	0	0	0	0	0	150	90
	12	3253	0	0	0	0	0	12	12	15	14	0	0	1	0	0	0	0	0	0	0	0	180	0
	13	3249	0	1	0	0	0	5	0	5	2	0	1	0	1	2	10	11	6	7	0	0	480	-120
	14	3249	0	0	0	0	0	0	0	0	0	0	0	0	0	4	15	14	14	7	0	0	120	240
	15	3250	0	0	0	0	0	0	0	0	4	16	12	14	7	0	0	0	1	0	0	0	240	90
	16	3252	0	0	0	0	0	0	6	15	13	12	8	1	0	0	0	0	0	0	0	0	150	30
	17	3249	0	0	0	0	0	5	14	14	14	8	0	0	0	0	0	0	0	0	0	0	120	0
	18	3250	0	0	0	0	0	6	12	14	12	10	0	0	0	0	0	0	0	0	0	0	120	0
	19	3251	0	0	0	0	0	6	14	12	13	9	0	0	0	0	0	0	0	0	0	0	120	0
	20	3249	0	0	0	0	0	6	14	12	14	9	0	0	0	0	0	0	0	0	0	0	120	0
	21	3251	0	0	0	0	0	3	5	7	7	4	0	2	7	9	5	4	0	0	0	0	300	0
	22	3252	0	0	0	0	0	0	0	0	0	0	0	5	13	10	12	7	0	0	0	0	120	180
	23	3241	1	0	0	0	0	0	1	4	4	3	5	4	8	10	6	5	0	0	0	0	270	30
	24	3250	0	0	0	0	0	0	0	0	0	0	0	4	13	15	12	10	0	0	0	0	120	180
	25	3259	0	0	0	0	0	0	3	8	13	15	11	8	2	0	0	1	0	0	0	0	270	30
	26	3240	0	0	0	0	0	4	12	16	13	9	0	0	0	0	0	0	0	0	0	0	120	0
	27	3249	0	0	0	0	0	0	5	16	28	22	19	8	0	0	0	0	0	0	0	0	150	30

Fig. 7

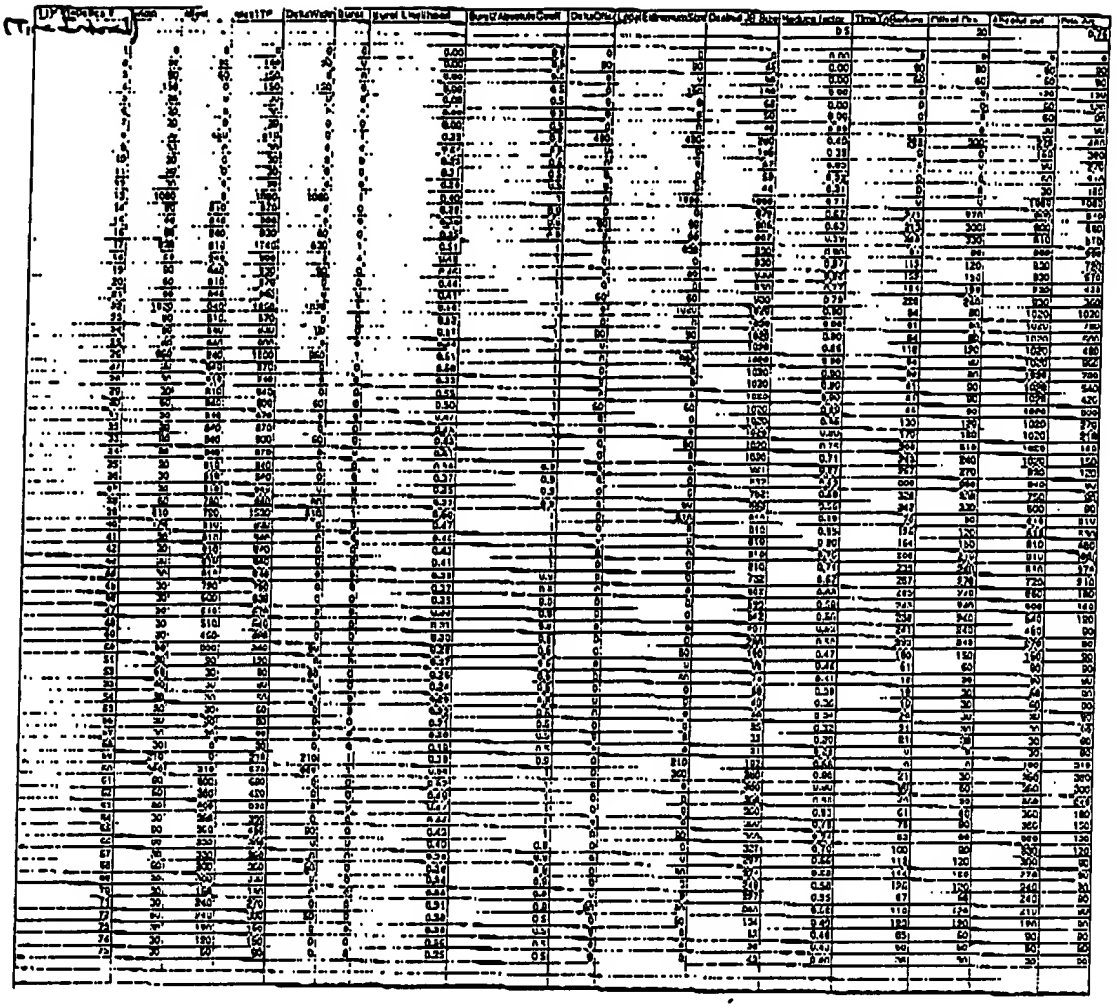

Fig. 10.

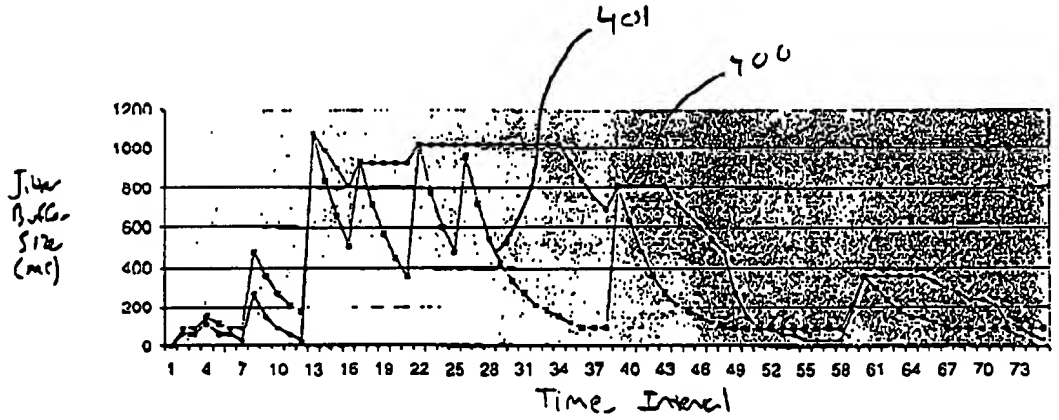
401
400
1200
1000
800
600
400
200
0
1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 46 49 52 55 58 61 64 67 70 73
Time Interval

Fig. 11